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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/681,221	02/27/2001	Roger C. Becerra	03-DV-7106 7007		
23465	7590 07/16/2003				
JOHN S. BEULICK			EXAMINER		
C/O ARMSTRONG TEASDALE, LLP ONE METROPOLITAN SQUARE			FLETCHER, MARLON T		
SUITE 2600 ST LOUIS, M	O 63102-2740		ART UNIT	PAPER NUMBER	
ŕ			2837		
			DATE MAILED: 07/16/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N .		Applicant(s)				
		09/681,221		BECERRA ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Marlon T Fletche	er	2837				
The MAILING DATE of this communication appears on the c ver sheet with the correspondence address								
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)🖂	Responsive to communication(s) filed on 29							
2a)⊠	<i>,</i> —	his action is non-fi						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)🖂	Claim(s) 1-65 is/are pending in the applicatio	n.						
	4a) Of the above claim(s) 12-30 and 49-53 is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-11,31-44,46-48,54-60 and 62-65</u> is/are rejected.							
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment	t(s)							
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)		r (PTO-413) Paper No(s) Patent Application (PTO-152)				
U.S. Patent and Tr PTO-326 (Re		ction Summary		Part of Paper No. 7				

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 4-11, 31-35, 40-44, 46-48, and 54-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bessler et al. in view of Kliman.

As recited in claims 1 and 31, Bessler et al. disclose a method for interfacing an electric motor to a controller using an electrical interface circuit (308), the interface circuit including a controller circuit (302) and a motor control circuit (310), the controller circuit including a transmitter circuit and a receiver circuit, the motor control circuit including a transmitter circuit and a receiver circuit, and the interface circuit electrically coupled to the controller and the electric motor as seen in figure 3, said method comprising the steps of: receiving a signal from the controller as discussed in column 4, lines 52-68 and; adjusting a level of the received signal to a desired level as discussed in column 4, lines 62-68; outputting the signal to control the electric motor as discussed in column 5, lines 5-12; receiving a signal from the electric motor as discussed in column 5, lines 37-45; and transmitting the received signal from the electric motor to the controller as discussed in column 5, lines 51-59.

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As recited in claim 2, Bessler et al. disclose a method, wherein said step of receiving a signal comprises the step of the controller circuit receiving electrical signals from the controller as seen in figure 3.

As recited in claim 4, Bessler et al. disclose a method, wherein said step of adjusting a level of the received signal comprises the step of adjusting the signal level to communicate with an ECM motor (310).

As recited in claims 5 and 35, Bessler et al. disclose a method, wherein said step of outputting the signal comprises the step of isolating a transmit signal to the electric motor as seen in figures 2 and 3.

As recited in claims 6, 7, 41, 43 Bessler et al. disclose a method, wherein said step of outputting the signal further comprises the step of interrogating the electric motor to acquire status and diagnostic information, wherein said step of interrogating the electric motor further comprises the step of acquiring at least one of an operating status, an operating speed, an operating torque, an input power consumption, an under-speed condition, and a time of operation above a desired power level from the electric motor as discussed in column 9, lines 16-59.

As recited in claims 8 and 42, Bessler et al. disclose the method, wherein said step of outputting the signal further comprises the step of commanding the electric motor to operate as at least one of a constant torque motor, a constant airflow motor, and a constant speed motor as disclosed in the abstract and as seen in figures 2 and 3.

As recited in claims 9 and 44, Bessler et al. disclose the method, wherein said step of outputting the signal comprises the step of controlling at least one of an

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operating profile, a speed limit, dynamic braking, and an inrush current of the electric motor as discussed in column 5, lines 45-65.

As recited in claim 10, Bessler et al. disclose the method, wherein said step of receiving a signal comprises the step of isolating a receive signal from the electric motor as seen in figures 2 and 3.

As recited in claims 32-34, Bessler et al. disclose adjusting a voltage or power in communications with the controller and the electric motor in order to control a desired level as discussed in the abstract, column 8, lines 25-49 and column 10, lines 39-62.

With respect to claims 46-48, and 59-60 Bessler et al. disclose bi-direction communication as seen in figures 2 and 3.

Bessler et al. do not disclose the use of RF or Infrared signals.

However, as recited in claims 1, 11, 31, 40, 46-48, 54, 58, and 62, Kliman et al. a method, wherein said step of adjusting a level of the received signal comprises the step of converting an electrical signal from the controller and motor to at least one of an infrared signal and an RF signal, wherein Kliman et al. disclose a communication link between the motor unit and the controller unit, wherein the communication can be one radio frequency signals as discussed in column 5, lines 16-28.

As recited in claim 36-39, 54, Kliman et al. disclose the electrical interface, wherein said motor transmit control circuit further comprises a first and second optocoupler, which is inherent from the use of RF signals as discussed above, wherein the sensors for RF signals are usually optocoupler.

Limitations with respect to claims 55-58 and 63-65 are discussed above.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Kliman et al. with the apparatus and method of Bessler et al., because Kliman et al. provide the use of RF signals, wherein signals can be wirelessly transmitted, thereby enhancing operation in the transmission of data from the motor to the controller.

Response to Arguments

- 3. Applicant's arguments filed 04/29/2003 have been fully considered but they are not persuasive. The applicant argues that neither Bessler et al. nor Kliman et al. disclose the signal conversion to one of RF or infrared. However, as pointed out in the rejection above, Kliman et al. provide a communication link between the motor and controller, wherein the communication can be one of radio frequency. This disclosure reads on the claim limitation.
- 4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marlon T Fletcher whose telephone number is 703-308-0848. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Nappi can be reached on 703-308-3370. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

mary Examiner

MTF July 14, 2003